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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/043,376	01/09/2002	Henryk Birecki	10004241-1 6334		
75	7590 04/29/2004			EXAMINER	
HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400 Fort Collins, CO 80527-2400			AGUSTIN, PETER VINCENT		
			ART UNIT	PAPER NUMBER	
			2652		
			DATE MAILED: 04/29/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applica	tion No.	Applicant(s)				
Office Action Summary							
		376	BIRECKI ET AL.				
		er	Art Unit				
		ncent Agustin	2652				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s)	filed on						
2a) This action is FINAL.	·						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-30 is/are pending in the day Of the above claim(s) is 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to 8) Claim(s) 1-30 are subject to restrict	s/are withdrawn from (
Application Papers							
9) The specification is objected to be 10) The drawing(s) filed on is/s Applicant may not request that any of Replacement drawing sheet(s) inclu 11) The oath or declaration is objected	are: a) accepted or objection to the drawing(siding the correction is req	i) be held in abeyance. So uired if the drawing(s) is of	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Revie 3) Information Disclosure Statement(s) (PTO-144 Paper No(s)/Mail Date		4) Interview Summal Paper No(s)/Mail I 5) Notice of Informal 6) Other:					

Application/Control Number: 10/043,376

Art Unit: 2652

DETAILED ACTION

Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-7 & 23-29 drawn to a planar electron emitter device having an emitter electrode, an extractor electrode, and a solid-state field controlled electron emitter; and a planar field emission electron emitter device having a planar electron emitter configured to bias electron emission in a central region classified in class 313, subclass 310.
 - II. Claims 8-13 & 30, drawn to a process for fabricating planar electron emitters by forming emitter electrode and extracting electrode layers and depositing a semiconductor material above the emitter electrode, classified in class 445, subclass 1+.
 - III. Claims 14-22, drawn to a storage apparatus comprising a storage medium and at least one planar electron emitter device, classified in class 369, subclass 101.
- Inventions I, II & III are distinct, each from the other because of the following reasons:

 Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the electron emitter device can be made by a fabrication process where a portion of the extracting electrode layer is not removed.

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Inventions I and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because storage apparatus does not require an electron emitter having a Schottky metal/semiconductor junction. The subcombination has separate utility such as in a camera, microscope, or display.

Inventions II and III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the emitter electrodes of the storage apparatus can be made by a fabrication process where a portion of the extracting electrode layer is not removed.

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. No telephone call was made to request an oral election to the above restriction requirement, due to the complexity thereof.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Vincent Agustin whose telephone number is (703) 305-8980. The examiner can normally be reached on Monday thru Friday 9:00AM 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on (703) 305-9687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PVA 04/13/2004

/ W. R. YOUNG RIMARY EXAMINER